DERWENT-ACC-NO: 1992-235994

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TITLE: Activating hydrocracking catalyst for petroleum fraction - by injection of lig. charge contg. sulphur and nitrogen before addn. of feed

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PATENT-ASSIGNEE: INST FRANCAIS DU PETROLE[INSF]

PRIORITY-DATA: 1990FR-0014128 (November 12, 1990)

PATENT-FAMILY:

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APPLICATION-DATA:

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ABSTRACTED-PUB-NO: FR 2668951A

BASIC-ABSTRACT: A hydrocracking catalyst for a petroleum fraction is activated

by S or a S cpd., by injecting a liq. charge, distinct from the feed, onto the catalyst before treating the feed. The liq. charge is a light petroleum cut, kerosene (or jet fuel) or gas oil (or diesel), and comes from an atmos. distn. column. Activation is in situ in the hydrocracking zone, at 0.3-30 MPa, under H2, by injecting the liq. charge at below 250 deg.C and at the same time injecting a N cpd. at below 270 deg.C; injection is esp. at 120-180 deg.C. The liq. charge is free from (di)olefins and has Br index below 5. The S for the activation originates from the liq. charge, which contains 0.1-3 wt.% of S, or an S cpd. is added; pref. S cpds. are CS2, (di)sulphid es, e.g. dimethyl (di)sulphide, colloidal S, thiophenes, mercaptans, organic polysulphides, cpds. contg. S associated with other functions, and sulphides yielding H2S under the activation conditions.

The N cpds. include prim., sec. and tert. amines, quat, ammonium cpds., arylamines, e.g. anilines and pyrroles and homologues, pyridines, nitriles,

(thio)ureas, NH3, nitro, nitrous and nitroso derivs., or any cpd. which is basic or can be converted to a basic cpd. During the injection of the liq. charge and the N cpd., the temp. is raised (dis)continuously to 280-400 deg.C, the temp. at which the feed is added.

ADVANTAGE - Oxides in the catalyst are sulphided and the activity of acid sites on the fresh catalyst is controlled.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:
ACTIVATE HYDROCRACKING CATALYST PETROL FRACTION INJECTION
LIQUID CHARGE CONTAIN
SULPHUR NITROGEN ADD FEED

DERWENT-CLASS: H04

CPI-CODES: H04-A07; H04-F02A; N06-E;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0349S; 1421S; 1713S; 1725S

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